

Amendments to the Claims

1. (Currently Amended) A summary table manager for managing summary tables in an OLAP (OnLine Analytical Processing) database system, comprising:

a query analysis system that ~~generates~~ outputs a set of proposed summary tables based on query statistics gathered for a set of inputted queries; and

a system for calculating a performance measure for each of the proposed summary tables based on the query statistics, wherein the performance measure is a combination of time saved and summary table size calculated by analyzing performance data of characteristics relating to each proposed summary table and performance data of subsets of characteristics relating to each proposed summary table.

2. (Original) The summary table manager of claim 1, wherein the set of proposed summary tables is determined based on characteristics utilized in the set of inputted queries.

3. (Currently Amended) The summary table manager of claim 1, wherein the performance measure comprises an estimated amount of time saved for using the proposed summary tables ~~summary table~~.

4. (Cancelled)

5. (Currently Amended) The summary table manager of claim 1, wherein the ~~performance measure is based on a~~ combination of time saved and summary table size ~~is~~ a multiplication of time saved and summary table size.
6. (Original) The summary table manager of claim 1, further comprising a system for normalizing performance measures determined for summary tables that are based on different fact tables.
7. (Currently Amended) The summary table manager of claim 1, further comprising a performance analysis system that determines an actual performance value of ~~a given~~ each proposed summary table using feedback from the OLAP database system.
8. (Currently Amended) The summary table manager of claim 7, wherein the performance analysis system compares statistics for queries using identical characteristics that are obtained before and after creation of a proposed summary table.
9. (Original) The summary table manager of claim 1, further comprising an evaluation system that automatically deletes low performing summary tables.

10. (Currently Amended) A program product stored on a recordable medium for managing summary tables in an OLAP (OnLine Analytical Processing) database system, comprising:

means for generating and displaying a set of proposed summary tables based on query statistics gathered for a set of inputted queries; and

means for calculating a performance measure for each of the proposed summary tables based on the query statistics, wherein the performance measure is based on a combination of time saved and summary table size.

11. (Original) The program product of claim 10, wherein the set of proposed summary tables is determined based on characteristics utilized in the set of inputted queries.

12. (Currently Amended) The program product of claim 10, wherein the performance measure comprises an estimated amount of time saved for using ~~the~~ each proposed summary table.

13. (Cancelled).

14. (Original) The program product of claim 10, wherein the performance measure for each summary table is calculated based on performance data of characteristics relating to the summary table and performance data for any subsets of characteristics relating to the summary table.

15. (Original) The program product of claim 10, further comprising means for normalizing performance measures determined for summary tables that are based on different fact tables.

16. (Currently Amended) The program product of claim 10, further comprising means for determining an actual performance value of ~~a given~~ each proposed summary table using feedback from the OLAP database system.

17. (Currently Amended) The program product of claim 16, wherein the determining means compares statistics for queries using identical characteristics that are obtained before and after the creation of a proposed summary table.

18. (Original) The program product of claim 10, further comprising means for automatically deleting low performing summary tables.

19. (Currently Amended) A method for managing summary tables in an OLAP (OnLine Analytical Processing) database system, comprising:

generating a set of proposed summary tables based on query statistics gathered for a set of inputted queries; and

calculating a performance measure for each of the proposed summary tables based on the query statistics, wherein the performance measure for ~~each~~ a summary table is calculated based on performance data of characteristics relating to the summary table and performance data for any subsets of characteristics relating to the summary table, and

wherein the performance measure is based on a combination of time saved and summary table size.

20. (Original) The method of claim 19, wherein the step of generating the set of proposed summary tables is determined based on characteristics utilized in the set of inputted queries.

21. (Original) The method of claim 19, wherein the performance measure comprises an estimated amount of time saved for using the summary table.

22. (Cancelled).

23. (Original) The method of claim 19, comprising the further step of normalizing performance measures determined for summary tables that are based on different fact tables.

24. (Currently Amended) The method of claim 19, comprising the further step of determining an actual performance value of ~~a given~~ each proposed summary table using feedback from the OLAP database system.

25. (Original) The method of claim 24, wherein the step of determining the actual performance value compares statistics for queries using identical characteristics that are obtained before and after the creation of a summary table.

26. (Original) The method of claim 19, comprising the further step of automatically deleting low performing summary tables.